

**Attachment B - For 4<sup>th</sup> Generation Equipment only**

**FACILITY SPECIFIC REQUIREMENTS - Additions to existing Certificate to Operate**

**COMPLIANCE PLAN: Perchloroethylene Drycleaning Operations**

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1.	<p><b><u>The following requirements are for all 4<sup>th</sup> Generation Dry-to-Dry PERC drycleaning equipment at this facility</u></b></p> <p>The Perchloroethylene used at the facility shall not exceed <b>150</b> gallons per 12-month period.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Perchloroethylene usage shall be monitored by calculations each month during operation. The owner or operator shall calculate the yearly consumption on the first day of every month by summing the volume of all perchloroethylene purchases made in each of the previous 12 months (use a consumption of zero for months prior to January 1, 2006 and for months in which there were no perchloroethylene purchases).</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recordkeeping by manual logging of the parameter each month during operation. The owner or operator shall maintain the following information: (1) Receipts of perchloroethylene purchases; (2) The volume of perchloroethylene purchased; and (3) The calculation and result of the yearly perchloroethylene consumption determination. All records must be readily accessible and available to the Department for a period of five years.</p> <p>[N.J.A.C. 7:27-8.13(d)(3)]</p>	<p>Written Notification: Upon exceeding 150 gallons in any 12-month period the owner or operator shall submit a notification of non-compliance status signed by a responsible official to:</p> <p align="center">New Jersey DEP Minor Source Compliance P.O. Box 407 Trenton, NJ 08625-0407</p> <p>[N.J.A.C. 7:27-8.13(d)(4)]</p>
2.	<p>The owner or operator shall route the air-perchloroethylene gas-vapor stream contained within each dry cleaning machine through a refrigerated condenser maintained at a temperature not greater than 45 degrees F.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by temperature instrument continuously, based on no averaging period. The owner or operator shall operate a permanently affixed temperature instrument at the outlet of the refrigerated condenser to determine whether the temperature is less than or equal to 45 degrees F. The temperature instrument shall be designed to measure a temperature of 45 degrees F to an accuracy of +/-2 degrees F. The permittee shall maintain the temperature instrument according to manufacturer's specifications and shall calibrate the sensor according to manufacturer's specifications. [N.J.A.C. 7:27-8.13(d)]</p>	<p>Recordkeeping by manual logging of the parameter each calendar week during operation. The owner or operator shall maintain a log of the date and temperature instrument monitoring results and the date of the last Instrument calibration. All records must be readily accessible and available to the Department for a period of five years.</p> <p>[N.J.A.C. 7:27-8.13(d)(3)]</p>	<p>Repair equipment: Upon occurrence of event. If the monitored temperature exceeds 45 degrees F, the owner or operator shall adjust or repair the dry cleaning systems before continuing to operate the system. [N.J.A.C. 7:27-8.13(d)(4)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3.	<p>The owner or operator shall operate a permanently affixed temperature instrument at the outlet of the refrigerated condenser</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Monitored by temperature instrument continuously, based on no averaging period. The owner or operator shall operate a permanently affixed temperature instrument at the outlet of the refrigerated condenser to determine whether the temperature is less than or equal to 45 degrees F. The temperature instrument shall be designed to measure a temperature of 45 degrees F to an accuracy of +/-2 degrees F. The permittee shall maintain the temperature instrument according to manufacturer's specifications and shall calibrate the sensor according to manufacturer's specifications.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recordkeeping by manual logging of the parameter each calendar week during operation. The owner or operator shall maintain a log of the date and temperature instrument monitoring results and the date of the last Instrument calibration. All records must be readily accessible and available to the Department for a period of five years.</p> <p>[N.J.A.C. 7:27-8.13(d)(3)]</p>	<p>Repair equipment: Upon occurrence of event. If the monitored temperature exceeds 45 degrees F, the owner or operator shall immediately calibrate the temperature instrument in accordance with the manufacturer's specifications and adjust or repair the dry cleaning systems before continuing to operate the system. If the temperature instrument is not operating properly, the owner or operator shall repair or replace the temperature instrument within one calendar week.</p> <p>[N.J.A.C. 7:27-8.13(d)(4)]</p>
4.	<p>Each 4<sup>th</sup> generation Dry-to-Dry PERC dry cleaning machine must be equipped with a carbon adsorber on the cylinder outlet designed to reduce the PERC concentration below 300 ppm.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None.	None.	None.
5.	<p>The owner or operator shall store any perchloroethylene or material containing perchloroethylene in covered containers with no perceptible leaks.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None.	None.	None.

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6.	<p>The owner or operator shall inspect the dry cleaning system each calendar week during operation for any perceptible leaks including but not limited to: (1) Hose and pipe connections, fittings, couplings, and valves; (2) Filter gaskets and seatings; (3) Door gaskets and seatings; (4) Pumps; (5) Solvent tanks and containers; (6) Water separators; (7) Muck cookers; (8) Stills; (9) Exhaust dampers; (10) Diverter valves; and (11) Cartridge filter housings</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Inspect the dry cleaning system each calendar week during operation for any perceptible leaks.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Recordkeeping by manual logging of the inspection results each calendar week during operation. The owner or operator shall maintain a log of the dates of inspections and the locations of any perceptible leaks found and the corrective measures take to repair such leaks. All records must be readily accessible and available to the Department for a period of five years.</p> <p>[N.J.A.C. 7:27-8.13(d)(3)]</p>	<p>Repair equipment: Upon occurrence of event. The owner or operator shall repair all perceptible leaks of the dry cleaning system immediately.</p> <p>[N.J.A.C. 7:27-8.13(d)(4)]</p>
7.	<p>The owner or operator shall route the air-perchloroethylene gas-vapor stream contained within each dry cleaning machine through a refrigerated condenser or an equivalent control device.</p> <p>(Note: see References #2 &amp; 3, New Jersey State Conditions are more stringent)</p> <p>[40 CFR 63.322(b)(1)]</p>	<p>Monitored by temperature instrument each week during operation, based on no averaging period. The owner or operator shall measure the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser to determine whether it is less than or equal to 45 degrees F. The temperature sensor shall be used according to he manufacturer's instructions and shall be designed to measure a temperature of 45 degrees F to an accuracy of +/-2 degrees F.</p> <p>(Note: see References #2 &amp; 3, New Jersey State Conditions are more stringent)</p> <p>[40 CFR 63.323(a)(1)]</p>	<p>Recordkeeping by manual logging of the parameter each week during operation. The owner or operator shall maintain a log of the date and temperature sensor monitoring results as specified in 40 CFR 63.323.</p> <p>(Note: see References #2 &amp; 3, New Jersey State Conditions are more stringent)</p> <p>[40 CFR 63.324(d)(5)]</p>	<p>Repair equipment: Upon occurrence of event. If the monitored temperature exceeds 45 degrees F, the owner or operator shall adjust or repair the dry cleaning system. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within two (2) working days of detecting such an exceedance, and shall be installed within five (5) wording days after receipt.</p> <p>(Note: see References #2 &amp; 3, New Jersey State Conditions are more stringent)</p> <p>[40 CFR 63.322(n)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8.	The owner or operator shall eliminate any emissions of perchloroethylene during the transfer of articles between the washer and dryer(s).  [40 CFR 63.322(b)(2)]	None.	None.	None.
9.	The owner or operator shall close the door of each dry cleaning machine immediately after transferring articles to or from the machine, and shall keep the door closed at all other times.  [40 CFR 63.322(c)]	None.	None.	None.
10.	The owner or operator shall operate and maintain the system according to manufacturers' specifications and recommendations.  [40 CFR 63.322(d)]	None.	None.	None.
11.	The owner or operator shall operate the condenser not to vent or release the air-perchloroethylene gas-vapor stream contained with the dry cleaning machine to the atmosphere while the dry cleaning machine drum is rotating.  [40 CFR 63.322(e)(1)]	None.	None.	None.
12.	The owner or operator shall operate the condenser with a Diverter valve, which prevents air drawn into the dry cleaning machine when the door of the machine is open from passing through the refrigerated condenser.  [40 CFR 63.322(e)(3)]	None.	None.	None.

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13.	The owner or operator shall drain all cartridge filters in their housing, or other sealed container, for a minimum of twenty four (24) hours, or shall treat such filters in an equivalent manner, before the removal from the dry cleaning facility.  [40 CFR 63.322(i)]	None.	None.	None.
14.	The owner or operator shall store all perchloroethylene and wastes that contain perchloroethylene in solvent containers with no perceptible leaks. (Note: see Reference #5, New Jersey State Condition is more stringent)  [40 CFR 63.322(j)]	None.	None.	None.
15.	The owner or operator shall inspect the following components of the dry cleaning system weekly for perceptible leaks while the dry cleaning system is operating: (1) hose and pipe connections, fittings, couplings, and valves; (2) Filter gaskets and seatings; (3) Door gaskets and seatings; (4) Pumps; (5) Solvent tanks and containers; (6) Water separators; (7) Muck cookers; (8) Stills; (9) Exhaust dampers; (10) Diverter valves; and (11) Cartridge filter housings.  (Note: see Reference #6, New Jersey State condition is more stringent)  [40 CFR 63.322(k)]	None.	Recordkeeping by manual logging of the parameter each week during operation. The owner or operator shall maintain a log of the dates of repairs and records of written or verbal orders for repair parts to demonstrate compliance with 40 CFR 63.323(m).  (Note: see Reference #6, new Jersey State Condition is more stringent)  [40 CFR 63.324(d)(4)]	Repair equipment: Upon occurrence of event. The owner or operator shall repair all perceptible leaks detected during the inspection within 24 hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within two (2) working days of detecting such a leak, and shall be installed within five (5) working days after receipt.  (Note: see Reference #6, New Jersey State Condition is more stringent)  [40 CFR 63.322(m)]

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16.	<p>The owner or operator shall determine yearly perchloroethylene consumption for the purpose of determining applicability with 40 CFR 63.320.</p> <p>[40 CFR 63.323(d)]</p>	<p>Monitored by calculations each month during operation, based on no averaging period. The owner or operator shall calculate the yearly consumption on the first day of every month by summing the volume of all perchloroethylene purchases made in each of the previous 12 months (use a consumption of zero for months in which there were no perchloroethylene purchases).</p> <p>[40 CFR 63.323(d)]</p>	<p>Recordkeeping by manual logging of the parameter each month during operation. The owner or operator shall maintain the following information: (1) Receipts of perchloroethylene purchases; (2) The volume of perchloroethylene purchased; and (3) The calculation and result of the yearly perchloroethylene consumption determination.</p> <p>[40 CFR 63.324(d)]</p>	<p>Submit a report: Once initially. The owner or operator shall submit a notification of compliance status signed by a responsible official to:</p> <p>USEPA Region 2 Air Division Attention: Venkata Rao (21<sup>st</sup> floor) 290 Broadway NY, NY 10007-1866</p> <p>and</p> <p>New Jersey DEP Bureau of Air Quality Evaluation Attention: Bureau Chief P.O. Box 027 401 E. State Street Trenton, NJ 08625-0027</p> <p>The notification shall contain: (1) The calculated yearly perchloroethylene solvent consumption; (2) Whether or not the facility is in compliance with each applicable requirement of 40 CFR 63.322; (3) Certification of accuracy; (4) Name and address; (5) NJ PI#; (6) County</p> <p>[40 CFR 63.324(a)&amp;(b)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17.	<p>Each owner or operator that exceeds 2100 gallons of perchloroethylene consumption per 12-month period shall submit a notification of compliance status to the delegated State authority. (Note: see Reference #1, new Jersey State condition is more stringent limiting consumption to 150 gallons per 12 month period)</p> <p>[40 CFR 63.324(c)]</p>	None.	None.	<p>Submit a report: Upon occurrence of event. The owner or operator shall submit a notification of compliance status signed by a responsible official to:</p> <p>USEPA Region 2 Air Division Attention: Venkata Rao (21<sup>st</sup> floor) 290 Broadway NY, NY 10007-1866</p> <p>and</p> <p>New Jersey DEP Bureau of Air Quality Evaluation Attention: Bureau Chief P.O. Box 027 401 E. State Street Trenton, NJ 08625-0027</p> <p>The notification shall include the following information: (1) The calculated new yearly perchloroethylene solvent consumption; (2) Whether or not the facility is in compliance with each applicable requirement of 40 CFR 63.322; (3) Certification of accuracy; (4) Name and address; (5) NJ PI#; (6) County.</p> <p>[40 CFR 63.324(c)]</p>
18.	<p>The owner or operator shall retain a copy of the design specifications and the operating manuals for each dry cleaning system and each control device located at the facility.</p> <p>[40 CFR 63.324(e)]</p>	None.	<p>Recordkeeping by manual logging of parameter once initially. The owner or operator shall maintain the documents on site, available for inspection.</p> <p>[40 CFR 63.324(e)]</p>	None.